

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP03/15322

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> H01L21/3205, H01L21/768, H01L21/28, H01L21/285,  
H01L21/288, H01L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> H01L21/3205, H01L21/768, H01L21/28, H01L21/285,  
H01L21/288, H01L29/06, C23C18/00, C23C20/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004  
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002-329723 A (Fujitsu Ltd.), 15 November, 2002 (15.11.02), Full text; Figs. 1 to 8 (Family: none)	1-8, 11-17
Y	JP 2001-283716 A (Toshiba Corp.), 12 October, 2001 (12.10.01), Full text; Figs. 1 to 8 (Family: none)	9, 10, 18-26
P, A	US 2003/0211724 A1 (TEXAS INSTRUMENTS INC.), 13 November, 2003 (13.11.03), Full text; Figs. 1 to 4 & JP 2004-6864 A Full text; Figs. 1 to 4	1-26

Further documents are listed in the continuation of Box C.  See patent family annex.

"A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier document but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 02 March, 2004 (02.03.04)	Date of mailing of the international search report 16 March, 2004 (16.03.04)
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Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
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Facsimile No.	Telephone No.
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